

VPN SYSTEM IN MOBILE IP NETWORK, AND  
METHOD OF SETTING VPN

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ABSTRACT OF THE DISCLOSURE

10       Linked with a position registration procedure in a  
mobile IP, the invention provides a VPN setting service  
using an IP Sec. tunnel between optional terminals  
without requiring these terminals to have a specific VPN  
function. This service is provided by a mobile terminal,  
authentication servers, a VPN database, and network  
15       apparatuses. A home authentication server extracts from  
the VPN database the VPN information of a user who has  
requested the authentication at the time of making a  
position registration request from the mobile terminal.  
The home authentication server then posts the VPN  
20       information to each network apparatus using a  
predetermined position registration message and an  
authentication response message. Based on the posted VPN  
information, the network apparatuses set a VPN path by  
the IP Sec. to between a home network apparatus and an  
25       external network apparatus, between the home network  
apparatus and a predetermined network apparatus, and/or  
the external network apparatus and the predetermined  
network apparatus, respectively.